## KDHE PUBLIC WATER SUPPLY 2005 CAPACITY DEVELOPMENT SURVEY

Public water supply systems face many challenges in achieving their goal of providing safe drinking water to their customers. Aging infrastructure, more stringent drinking water standards, and the desire to keep water rates to a minimum are factors that public water supply managers must resolve if they are to be successful. One goal of the Kansas Capacity Development Strategy for Public Water Supply Systems is to identify systems most in need of assistance to improve their technical, managerial, and financial capabilities. This Capacity Survey is one component of the Strategy and will be used to help the State and other public water supply assistance providers develop programs to provide assistance to water utilities, and to provide a "capacity" benchmark which will be used to measure improvements in water system capacity. The Survey should also be useful as a tool to water system managers to measure their strengths and identify their weaknesses.

In Addition, the Kansas Water Plan encourages public water supply systems to achieve capacity. One component of the Kansas Water Plan is for all public water supply systems to develop and maintain the technical, managerial, and financial capability, or the "capacity" to comply with drinking water standards by the year 2010.

The survey questionnaire is organized by the three areas comprising capacity development.

- 1. **Technical Capacity** requests information concerning adequacy of the water source or water purchase contracts and general information about the physical infrastructure aspects of the utility.
- 2. **Financial Capacity** considers the revenue sufficiency, including income, expense, debt service coverage ratios, capital improvement planning, general fiscal management and overall credit worthiness.
- 3. Management Capacity considers the accountability of the governing body or owner, planning, organization, communication and linkages with mentor organizations such as the League of Kansas Municipalities, Kansas Rural Water Association, American Water Works Association or others.

If you have questions or need assistance completing this survey please contact:

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				Do not write in this	s space. For KDHE Use only.
				KDHE ID	Fed ID
Namo	e of System		_		
City_		Cou	nty		
Namo	e of Person Completin	g Survey		Phone	
Wate	er System email addre	ss			
		TE	CHNICAL CAPACITY		
adequ	acy, infrastructure adec	quacy (including v		er intakes, treatme	not limited to the source water nt, storage, and distribution), and
Sour	ce				
1.	What is your system	's raw water sour	ce and/or who do you pure	chase water from	(check and fill in all that apply)?
	☐ Surface:  Lake Name  Stream Name			ound: Of Wells Used	_
	☐ Purchased From:_		Doi	n't know	
2.	Does your system ha	ive an emergency	or supplemental water su	pply?	
	□ Yes	$\square$ No	☐ Don't know	,	
3.	If question 2 is yes, j	please identify em	nergency source.		
	$\square$ Back-up Wells	☐ Connection	n with another system (na	me)	
	☐ Back-up Surface	Source (stream or	lake name)		
	☐ Other (specify)				
4.	If water is purchased amount of water in y			a drought or othe	r "cut-off" clause limiting the
	□ Yes	$\square$ No	☐ Don't know	√ □ No p	urchased water
5.	If water is not purch of Agriculture, Divis			nt water rights issu	ned from the Kansas Department
	□ Yes	□ No	☐ Don't kno	w □ No w	vater rights, purchase water only

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6.		es in the previous 3 years otal length of time restrict		lid your system i	mpose water use restrictions and
	☐ None ☐ 3 or more	□ Once □ Don't know	☐ Twice		
	Total Time:	$\square$ Less than 1 month	$\Box$ 1 to 3 months	□ 3 to 6 month	$\square \text{ More than 6 months}$
	If restrictions w	vere imposed, please indi	cate the year(s) and if the	ney were mandate	ory or voluntary
	☐ <u>2002</u> ☐ Voluntary ☐ Mandatory	□ <u>2003</u> □ Voluntary □ Mandatory	□ <u>2004</u> □ Voluntary □ Mandatory		
7.		were imposed in question was drought related): If i			eck all that apply and whether or question 9.
	Drought Relate	ed: □ Yes □ No			
	☐ Treatment ca ☐ Water Right ☐ Minimum D		☐ Distribution or stora☐ Water Quality☐ Adequate Water Pur		☐ Raw water supply source ☐ Other (Specify) ☐ Don't Know
8.	If yes in question	on 6, has the cause for re-	striction been corrected	?	
	□ Yes	□ No	☐ Don't know	,	
	Please Explain	Yes or No Answer:			
9.	Does your syste	em have an approved Sou	urce Water Protection P	lan or Wellhead	Protection Plan?
	□ Yes	□ No	☐ Don't know	Puro □ Puro	chase Treated Water
10.	Is your system'	's source capacity higher	than your peak day dem	nand by a margin	of 50%?
	□ Yes	□ No	☐ Don't know	Puro	chase Treated Water

## **Treatment**

Did your system	have any prin	nary drinking wat	er standard violation	ons in 2004?	
☐ Don't know					
Did your system	have any mor	nitoring, reporting	g or other violations	s in 2004?	
				- -	
				- -	
What is your sys capacity?	tem's daily av	verage water prod	uction expressed as	s a percentage of peak production	
		☐ 50% - 75% ☐ Don't know	☐ Greate	r than 75%	
What is your sys	tem's average	daily production	in Gallons per Day	/ (GPD)?	
	GPD	□ Don't Know	□ Purcha	se Treated Water	
Does your system	m have emerge	ency/standby elec	trical service (prod	uction and/or distribution)?	
□ Yes	□ No		☐ Don't know		
Can your system	maintain full	pumping and pro	duction operations	during a 100 year flood event?	
□ Yes	□ No		☐ Don't know		
If your system has a surface water treatment plant constructed more than 20 years ago, have treatment processes been upgraded to meet current standards?					
☐ Yes ☐ Does not appl			☐ Don't know chase treated water)	)	
oution					
Does your system	n's operation	pressure for any c	customer service co	onnection fall below 20 psi?	
□ Yes	□ No		□ Don't know		
	□ No □ Yes, list □ Don't know  Did your system □ No □ Yes, list □ Don't know  What is your system to sepacity? □ Less than 50% □ Purchase Treat What is your system to yes □ Does not application  Does your system □ Yes □ Does not application	□ No □ Yes, list □ Don't know  Did your system have any mon □ No □ Yes, list □ □ Don't know  What is your system's daily average and the system's average and the system's average and the system's average and the system have emergent and the system and the syst	□ No □ Yes, list □ Don't know  Did your system have any monitoring, reporting □ No □ Yes, list □ Don't know  What is your system's daily average water prod capacity? □ Less than 50% □ 50% - 75% □ Purchase Treated Water □ Don't know  What is your system's average daily production □ GPD □ Don't Know  Does your system have emergency/standby electory or system maintain full pumping and profile Yes □ No  If your system has a surface water treatment plateen upgraded to meet current standards? □ Yes □ No □ Does not apply (ground water treatment, purcontion)  Does your system's operation pressure for any contion  Does your system's operation pressure for any contion	□ Yes, list □ Don't know  Did your system have any monitoring, reporting or other violations □ No □ Yes, list □ Don't know  What is your system's daily average water production expressed as capacity? □ Less than 50% □ 50% - 75% □ Greate □ Purchase Treated Water □ Don't know  What is your system's average daily production in Gallons per Day □ Don't Know □ Purchase Does your system have emergency/standby electrical service (production yers) □ No □ Don't know  Can your system maintain full pumping and production operations □ Yes □ No □ Don't know  If your system has a surface water treatment plant constructed more been upgraded to meet current standards? □ Yes □ No □ Don't know □ Don't know □ Does not apply (ground water treatment, purchase treated water soution  Does your system's operation pressure for any customer service constructed or soution.	

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19.	Does your system have less than 24 hours of finished water storage at average daily use?				
	□ Yes	□ No	□ Don't know		
20.	Have your system's wa	ter storage facilities beer	n inspected during the past 24 months?		
	□ Yes	□ No	□ Don't know		
☐ Yes ☐  21. What is your system's unaccountability, staffing and organize  ☐ Yes ☐  22. Does your system have an ☐ Yes ☐  23. Does your system have accountability, staffing and organize	unaccounted for water lo	ss as a percentage of total production or purchase?			
		☐ Between 15% and 29	9% ☐ More than 29%		
22.	Does your system have	an active cross-connecti	on control program?		
	☐ Yes	□ No	□ Don't know		
23.	Does your system have	accurate maps of your d	istribution system?		
	□ Yes	□ No	□ Don't know		
24.			or intertwine with another public water supply distribution system		
	□ Yes	$\square$ No	□ Don't know		
		MANAGI	ERIAL CAPACITY		
_		•	of the water system, including but not limited to ownership inkages.		
25.	What is your system's g	governance structure?			
	☐ Elected board/counc ☐ Other (Describe) ☐ Don't know	il	□ Sole ownership		
26.			tilize industry related service organizations such as the Kansas ter Association or the American Water Works Association?		
	☐ Yes	□ No	□ Don't know		
27.	Do your system's opera Environment?	ators have appropriate lev	vels of certification by the Kansas Department of Health and		
	☐ Yes	□ No	□ Don't know		
	If No, does your system	n have a KDHE approved	d Operator In Training (OIT)?		
	□ Yes	□ No	□ Don't know		

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28.	Does your systen	n have written person	anel policies and job description	ns signed by the employees?
	☐ Yes ☐ No Employees	□ No s, Volunteer Labor	☐ No Employees, Contract☐ Don't know	Labor
29.	Does your system	n provide benefits to	employees (retirement, insurar	ace, etc.)?
	☐ Yes ☐ No Employees	□ No s, Volunteer Labor	☐ No Employees, Contract☐ Don't know	labor
30.	Does your system	n have formal policie	s for: payments/collections, ma	ain extensions/connections, etc.?
	□ Yes	□ No	□ Don't know	
31.	Does the governi	ng body review a mo	onthly summary of revenues an	d expenses of the utility system?
	□ Yes	□ No	□ Don't know	
32.	Does your system etc.)?	n have a formal plan	for operations and maintenance	e (line flushing, pumps, meters, storage tanks
	□ Yes	□ No	☐ Don't know	
33.	Does your system Environment?	n have an emergency	or contingency plan approved	by the Kansas Department of Health and
	□ Yes	□ No	☐ Don't know	
34.	Does your emerg	ency plan coordinate	with your county emergency p	plan?
	□ Yes	□ No	□ Don't Know	☐ Don't Have Approved Plan
35.		n have a Water Conse ces or the Kansas Wa	* *	Kansas Department of Agriculture, Division
	□ Yes	□ No	□ Don't know	
36.	Has your system been corrected?	been cited for violati	ons for any deficiencies on the	most recent sanitary survey, which have not
	□ Yes	□ No	□ Don't know	
37.	Does your systen	n have a public inform	mation program?	
	□ Yes	□ No	□ Don't know	
38.	Does your system	n have a computerize	d record-keeping system?	
	□ Yes	□ No	☐ Don't know	

39.	Does the governing	body approve expenses	prior to payment being issued?				
	□ Yes	□ No	□ Don't know				
40.	Are at least two sign	atures required to purch	nase goods and services over \$100.00?				
	□ Yes	□ No	□ Don't know				
		FINA	ANCIAL CAPACITY				
	hallenge for most utilit	y systems is to operate l	like a business. The following questions will assist in evaluating the				
41.	Does your water sys	tem income exceed ope	rating expenses (including debt service)?				
	□ Yes	□ No	□ Don't know				
42.	Does your system fu	Does your system fund a depreciation/capital improvement account?					
	□ Yes	□ No	□ Don't know				
43.	Does your system ha 5 years?	ave a capital budget or c	capital improvement plan that projects future capital needs for at least				
	□ Yes	□ No	□ Don't know				
44.	Does your system ha	ave financial reserves fo	or emergencies?				
	□ Yes	□ No	□ Don't know				
45.	Does your water util	ity support other enterp	rise funds or the general fund (cities)?				
	☐ Yes ☐ Does not apply (r	□ No wd)	□ Don't know				
46.	Does your system re	quire revenues from oth	ner enterprise funds or the general fund for normal operations?				
	☐ Yes	□ No	□ Don't know				
47.	Does your system de	evelop and follow an an	nual budget that is approved by the governing body?				
	□ Yes	□ No	□ Don't know				
48.	Does your system ha	ave an audited financial	statement prepared by a certified public accountant?				
	☐ Yes	□ No	□ Don't know				
49.	Has the auditor subn	nitted a copy of their mo	ost recent peer review?				
	□ Yes	□ No	☐ Don't know				

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50.	Are the audited financial statements prepared according to generally accepted accounting principals (GAAP)?						
	□ Yes	□N	0	□ Don'	t know		
51.	Have your sy	stem's water rat	tes been revie	ewed within the	last 3 years?		
	□ Yes	□N	0	□ Don'	t know		
52.	Does your sy	stem's current r	ate structure	produce income	e to cover: (check	all that apply)	
	☐ Current Ex☐ Contractua	xpenses al Obligations		☐ Replacement ☐ No	Costs	☐ Reserves ☐ Don't know	
53.		ete the followin					
		e to Residentia	l T	otal Cost			
Custon							
	y Minimum _	gallo	ons				
5,000 g							
	gallons						
	gallons						
	gallons						
30,000	gallons						
54.	Please indica	te your type of r	ate.				
	☐ Flat Rate (	Not Metered)	☐ Block	Rate	☐ Increasing Blo	ock Rate	
	☐ Decreasing	,	□ Don't		☐ Other		
	•	٥					
55.	Please provid	le number of ser	vice connect	ions.			
Year	Residential	Commercial	Industrial	Wholesale	Stock Water	<b>Power Production</b>	Total
2004							
2003							
2002							
56.	Environment	?	·	•	-	o the Kansas Departme	nt of Health and
	☐ Yes	$\square$ N	О	□ Don'	t know		

## **FUTURE PLANNING NEEDS**

Planning for future needs is a critical component of developing technical, financial and managerial capacity. The following questions will help identify water systems needing assistance to meet future water supply demands.

		☐ Have not consi	idered another so	ource
If you have considered additional sources, within	what timeframe	do you anticipate	e activation?	
☐ 5 Years or Less ☐ 6 to 10 Years ☐ Have not considered another source	☐ 11 to 20 Years	s □ Don't	Know	
In 1998, the Kansas Water Office developed pop water suppliers. Please review the numbers belo box. If you disagree please provide your estimat provided. If KWO numbers are not provided, please	w. If you agree ves and an explana	vith these number ation on how they	rs please check t were developed	he appro
Population Estimates				
☐ Agree with KWO estimates				
Year	2010	2020	2030	20
KWO Population Estimates				
New Estimates Provided by Water System				
Explanation				
Water Demand Estimates				
☐ Agree with KWO estimates				
Year	2010	2020	2030	20
KWO Estimates in Thousands of Gallons				
New Estimates By Water System in Thousands of Gallons				
Explanation				
Explanation				